

Pollution Prevention Opportunities for the Dry Cleaning Industry

The keys are to ensure proper PERC (perchloroethylene) separation in the water separator and to warn against illegal disposal of still bottom residuals to the sewer. The preferable program is zero discharge to sewer, with the water and still bottom transported for off-site reclamation by a contract service.

<u>Y/N</u>	<u>Opportunities</u>	<u>Comments</u>
I. Good Operating Practices, mainly for minimizing air emissions		
_____	Keep lids on containers	To reduce evaporation and spill
_____	Label all raw material containers	To prevent unnecessary disposal
_____	Store containers shake-proof	To prevent spill in earthquake
_____	Replace seals regularly on dryer deodorizer and aeration valves	To reduce emission leaks
_____	Replace door gasket on button trap	Same
_____	Replace gaskets around cleaning machine door or tighten enclosure	Same
_____	Repair holes in air an dexhaust ducts	Same
_____	Secure hose connections and couplings	Same
_____	Clean lint screens to avoid clogging fans and condensers	Same
_____	Open button traps and lint gaskets only long enough to clean	Same
_____	Check baffle assembly in cleaning mahcine bi-weekly	Same
_____	Check air relief valves for proper enclosure	Same

_____	Adjust in-and-out condensing coil temperature on heater to within 10 ⁰ F of each other	Same
_____	Redistilling still bottom with more water following boil-down	To recover more solvent and reduce solvent content in still bottom
_____	Use cartridge stripper to remove solvent from cartridge	To recover more solvent

II. Process & Equipment Changes and Modernization

_____	Convert to "dry-to dry" machine	To reduce solvent vapor losses
_____	Install solvent leak detectors	To monitor for vapor losses
_____	Use refrigeration/condensation system	To reduce vapor losses
_____	Use a reclaiming dryer	To reduce solvent losses
_____	Redesign separator with baffles and decant taps	To reduce PERC entrainment and to afford better decanting of water
_____	Allow only batch discharge of decant water from separator after visual inspection	To check for inadequate separation before sewer discharge
_____	Steam strip cleaning filter cartridge	To recover solvent
_____	Substitute low temperature laundering for dry cleaning for applicable fabric	To avoid unnecessary dry cleaning

III. Off-site Reclamation

_____	Contract collection of cartridge filter, separator water and still bottom for offsite reclamation	To provide PERC reclamation and condensate treatment under proper expert supervision
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